

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

Claims 1-22 (Cancelled)

23. (Previously presented) A transmitter, said transmitter comprising:
(a) an output stage that generates an ultra wideband signal;
(b) a filter that spectrally modifies said ultra wideband signal to create one or more zero crossings in the time domain; and
(c) an antenna coupled to said filter that radiates said spectrally modified ultra wideband signal.

24. (Previously presented) The transmitter of claim 23, wherein said ultra wideband signal comprises at least one of a pulse, a cycle, or a monocycle.

25. (Previously presented) The transmitter of claim 23, wherein said filter is a bandpass filter.

26. (Cancelled)

27. (Previously presented) The transmitter of claim 23, wherein said output stage generates said ultra wideband signal based upon a trigger signal.

28. (Previously presented) The transmitter of claim 27, wherein said trigger signal is applied to at least one switch.

29. (Previously presented) The transmitter of claim 28, wherein said at least one switch comprises at least one transistor.

30. (Currently Amended) The transmitter of claim 27, wherein said trigger signal is [a] based on at least one of an information signal, a code signal, and a subcarrier signal.

31. (Previously presented) A method of transmitting, comprising:
(a) generating an ultra wideband signal;
(b) spectrally modifying the ultra wideband signal to create one or more zero crossing in the time domain; and
(c) radiating the spectrally modified ultra wideband signal.

32. (Previously presented) The method of claim 31, wherein said ultra wideband signal comprises at least one of a pulse, a cycle, or a monocycle.

33. (Previously presented) The method of claim 31, wherein a filter is used to spectrally modify the ultra wideband signal.

34. (Previously presented) The method of claim 33, wherein said filter is a bandpass filter.

35. (Cancelled)

36. (Previously presented) The method of claim 31, wherein said generating the ultra wideband signal is based on a trigger signal.

37. (Previously presented) The method of claim 36, wherein said trigger signal is applied to at least one switch.

38. (Previously presented) The method of claim 37, wherein said at least one switch comprises at least one transistor.

39. (Previously presented) The method of claim 36, wherein said trigger signal is based on at least one of an information signal, a code signal, and a subcarrier signal.

40. (Previously presented) A method of transmitting, comprising:
(a) generating an ultra wideband signal;
(b) filtering the ultra wideband signal to create one or more zero crossings in the time domain; and
(c) radiating the filtered ultra wideband signal.

41. (Previously presented) The method of claim 40, wherein said filtering is by a bandpass filter.

42. (Previously presented) The method of claim 40, wherein said generating the ultra wideband signal is based on a trigger signal.